

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/566,954
Source: IFWP
Date Processed by STIC: 02/14/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/10/566,954

TIME: 12:48:12

Input Set : F:\seq_listing_11548_003_999.txt

Output Set: N:\CRF4\02142006\J566954.raw

```

3 <110> APPLICANT: Gustafsson, Claes
4      Govindarajin, Sridhar
5      Minshull, Jeremy Stephen
7 <120> TITLE OF INVENTION: Systems and Methods for Antibody
8      Engineering
10 <130> FILE REFERENCE: 11548-03-999
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/566,954
C--> 13 <141> CURRENT FILING DATE: 2006-01-31
13 <150> PRIOR APPLICATION NUMBER: PCT/US04/24751
14 <151> PRIOR FILING DATE: 2004-07-30
16 <150> PRIOR APPLICATION NUMBER: 60/536,862
17 <151> PRIOR FILING DATE: 2004-01-15
19 <150> PRIOR APPLICATION NUMBER: 60/536,357
20 <151> PRIOR FILING DATE: 2004-01-14
22 <150> PRIOR APPLICATION NUMBER: 60/491,815
23 <151> PRIOR FILING DATE: 2003-08-01
25 <160> NUMBER OF SEQ ID NOS: 3
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 20
31 <212> TYPE: PRT
32 <213> ORGANISM: E. Coli
34 <220> FEATURE:
35 <223> OTHER INFORMATION: E Coli Leader Peptide
38 <400> SEQUENCE: 1
39 Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
40 1          5          10          15
41 His Ser Thr Met
42          20
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 377
47 <212> TYPE: PRT
48 <213> ORGANISM: Tritirachium album Limber
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Tritirachium album Limber proteinase K
54 <400> SEQUENCE: 2
55 Ala Pro Ala Val Glu Gln Arg Ser Glu Ala Ala Pro Leu Ile Glu Ala
56 1          5          10          15
57 Arg Gly Glu Met Val Ala Asn Lys Tyr Ile Val Lys Phe Lys Glu Gly
58          20          25          30
59 Ser Ala Leu Ser Ala Leu Asp Ala Ala Met Glu Lys Ile Ser Gly Lys
60          35          40          45
61 Pro Asp His Val Tyr Lys Asn Val Phe Ser Gly Phe Ala Ala Thr Leu

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| | | | | | |
|-----|---|-----|-----|-----|-----|
| 62 | 50 | | 55 | | 60 |
| 63 | Asp Glu Asn Met Val Arg Val Leu Arg Ala His Pro Asp Val Glu Tyr | | | | |
| 64 | 65 | | 70 | | 80 |
| 65 | Ile Glu Gln Asp Ala Val Val Thr Ile Asn Ala Ala Gln Thr Asn Ala | | | | |
| 66 | | 85 | | 90 | 95 |
| 67 | Pro Trp Gly Leu Ala Arg Ile Ser Ser Thr Ser Pro Gly Thr Ser Thr | | | | |
| 68 | | 100 | | 105 | 110 |
| 69 | Tyr Tyr Tyr Asp Glu Ser Ala Gly Gln Gly Ser Cys Val Tyr Val Ile | | | | |
| 70 | | 115 | | 120 | 125 |
| 71 | Asp Thr Gly Ile Glu Ala Ser His Pro Glu Phe Glu Gly Arg Ala Gln | | | | |
| 72 | | 130 | | 135 | 140 |
| 73 | Met Val Lys Thr Tyr Tyr Tyr Ser Ser Arg Asp Gly Asn Gly His Gly | | | | |
| 74 | 145 | | 150 | | 160 |
| 75 | Thr His Cys Ala Gly Thr Val Gly Ser Arg Thr Tyr Gly Val Ala Lys | | | | |
| 76 | | 165 | | 170 | 175 |
| 77 | Lys Thr Gln Leu Phe Gly Val Lys Val Leu Asp Asp Asn Gly Ser Gly | | | | |
| 78 | | 180 | | 185 | 190 |
| 79 | Gln Tyr Ser Thr Ile Ile Ala Gly Met Asp Phe Val Ala Ser Asp Lys | | | | |
| 80 | | 195 | | 200 | 205 |
| 81 | Asn Asn Arg Asn Cys Pro Lys Gly Val Val Ala Ser Leu Ser Leu Gly | | | | |
| 82 | | 210 | | 215 | 220 |
| 83 | Gly Gly Tyr Ser Ser Ser Val Asn Ser Ala Ala Ala Arg Leu Gln Ser | | | | |
| 84 | 225 | | 230 | | 240 |
| 85 | Ser Gly Val Met Val Ala Val Ala Ala Gly Asn Asn Asn Ala Asp Ala | | | | |
| 86 | | 245 | | 250 | 255 |
| 87 | Arg Asn Tyr Ser Pro Ala Ser Glu Pro Ser Val Cys Thr Val Gly Ala | | | | |
| 88 | | 260 | | 265 | 270 |
| 89 | Ser Asp Arg Tyr Asp Arg Arg Ser Ser Phe Ser Asn Tyr Gly Ser Val | | | | |
| 90 | | 275 | | 280 | 285 |
| 91 | Leu Asp Ile Phe Gly Pro Gly Thr Ser Ile Leu Ser Thr Trp Ile Gly | | | | |
| 92 | | 290 | | 295 | 300 |
| 93 | Gly Ser Thr Arg Ser Ile Ser Gly Thr Ser Met Ala Thr Pro His Val | | | | |
| 94 | 305 | | 310 | | 320 |
| 95 | Ala Gly Leu Ala Ala Tyr Leu Met Thr Leu Gly Lys Thr Thr Ala Ala | | | | |
| 96 | | 325 | | 330 | 335 |
| 97 | Ser Ala Cys Arg Tyr Ile Ala Asp Thr Ala Asn Lys Gly Asp Leu Ser | | | | |
| 98 | | 340 | | 345 | 350 |
| 99 | Asn Ile Pro Phe Gly Thr Val Asn Leu Leu Ala Tyr Asn Asn Tyr Gln | | | | |
| 100 | | 355 | | 360 | 365 |
| 101 | Ala Val Asp His His His His His His | | | | |
| 102 | | 370 | | 375 | |

105 <210> SEQ ID NO: 3

106 <211> LENGTH: 1193

107 <212> TYPE: DNA

108 <213> ORGANISM: Artificial Sequence

110 <220> FEATURE:

111 <223> OTHER INFORMATION: Artificial nucleic acid sequence encoding Tritirachium album

112 Limber proteinase K

115 <400> SEQUENCE: 3

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```
116 atgaaaaaac tgctgttcgc gattccgctg gtggtgccgt tctatagcca tagcaccatg 60
117 gcaccggccg ttgaacagcg ttctgaagca gctcctctga ttgaggcacg tggtgaaatg 120
118 gtagcaaaca agtacatcgt gaagttcaag gagggttctg ctctgtctgc tctggatgct 180
119 gctatggaaa agatctctgg caagcctgat cacgtctata agaacgtgtt cagcggtttc 240
120 gcagcaactc tggacgagaa catgggtccgt gtactgcgtg ctcacccaga cgttgaatac 300
121 atcgaacagg acgctgtggt tactatcaac gcggcacaga ctaacgcacc ttggggctctg 360
122 gcacgtatct cttctacttc cccgggtacg tctacttact actacgacga gtctgccggt 420
123 caaggttctt gcgtttacgt gatcgatacg ggcacgcagg cttctcatcc tgagtttgaa 480
124 ggccgtgcac aaatggtgaa gacctactac tactcttccc gtgacggtaa tggtcacggt 540
125 actcattgcg caggtactgt tggtagccgt acctacgggt ttgctaagaa aacgcaactg 600
126 ttcggcggtta aagtgtgga cgacaacggt tctgggtcagt actccaccat tatcgcggtg 660
127 atggatttcg tagcgagcga taaaaacaac cgcaactgcc cgaaagggtg tgtggcttct 720
128 ctgtctctgg gtggtggtta ctctcttct gttaacagcg cagctgcacg tctgcaatct 780
129 tccggtgtca tggtcgcagt agcagctggt aacaataacg ctgatgcacg caactactct 840
130 cctgctagcg agccttctgt ttgcaccgtg ggtgcacctg atcgttatga tcgtcgtagc 900
131 tccttcagca actatggttc cgtcctggat atcttcggcc ctggtacttc tatcctgtct 960
132 acctggattg gcggtagcac tcgttccatt tccggtacga gcatggctac tccacatgtt 1020
133 gctggtctgg cagcatacct gatgaccctg ggtaagacca ctgctgcacg cgcttgctcg 1080
134 tacatcgcg atactgcgaa caaaggcgat ctgtctaaca tcccgttcgg caccgttaat 1140
135 ctgctggcat acaacaacta tcaggctgtc gaccatcatc atcatcatca tag 1193
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VERIFICATION SUMMARY

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Output Set: N:\CRF4\02142006\J566954.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date